

## CLAIMS

1. A LED illuminator or an equivalent illuminator with a semiconductor light source for a headgear or equivalent, said illuminator comprising one or  
5 more light emitting semiconductor light sources (4), especially LEDs (Light Emitting Diode), a frame (1, 2, 11, 12), an electronics control part (5) for controlling the semiconductor light sources, and fastening parts for fastening the illuminator, wherein the semiconductor light sources are directed in at least one given direction, such as towards a working object and/or area,

10 **characterized** in that

the illuminator is a unitary illuminator module, wherein  
the semiconductor light sources are fitted in a common, preferably rectangular connection part (3), side by side and directed towards the working object and/or area, and

15 the frame consists of two frame parts (1, 2, 11, 12) folded one over the other, which can be attached to the headgear by means of releasable quick coupling parts, preferably snap-on bayonet catches.

20 2. A LED illuminator according to claim 1, **characterized** in that the module is also provided with UV LEDs so that at least some of the LEDs are UV LEDs, especially for use by authorities.

3. A LED illuminator according to claim 1, **characterized** in that the module is also provided with IR LEDs so that at least some of the LEDs are IR LEDs.

25 4. A LED illuminator according to claim 1, **characterized** in that it comprises a switch (6) placed in conjunction with the frame.

5. A LED illuminator according to claim 1, **characterized** in that it is a water-tight (IP class 55 and upwards) encapsulated LED unit designed to be attached to protective helmets (motor vehicle drivers' helmets, miners' helmets, professional divers' helmets).

30 6. A LED illuminator according to claim 1, **characterized** in that it comprises different and differently colored semiconductor light sources, which work together or separately.

35 7. A LED illuminator according to claim 1, **characterized** in that the frame parts (1, 2) can be folded against each other so that the visor or equivalent or a part of it remains between them.